

8405 Fixed Head Disc



The SPERRY UNIVAC™ 8405 Fixed-Head Disc (FHD) drive is a very high performance, direct-access storage device that will balance a system configuration especially well in demand and multi-tasking environments because of its fast access time. An average latency time of 8.34 milliseconds provides the speed necessary for systems throughput requirements.

The complete subsystem consists of a SPERRY UNIVAC 5039 Control Unit with an 8405 Fixed-Head Disc attachment

(F2076 8405 Capability) and from one to eight 8405 FHD drives and two to eight 8433 and/or 8430 Disc Storage drives. This combination allows for low cost and flexibility in configuring mass storage subsystems.

The SPERRY UNIVAC 8405 FHD drives uses a nonremoveable head per track disc stack. The drives come in two versions: the 8405-00 with twelve recording surfaces providing up to 1,376,256 36-bit words; the 8405-04 with six recording surfaces providing up to 688,128

36-bit words for the SPERRY UNIVAC 1100 Series Systems. The SPERRY UNIVAC Series 90 record format provides up to 3,145,728 bytes on the 8405-04.

At a transfer rate of 622,000 bytes per second, simultaneous operation can be performed on any two FHD drives via two control units and appropriate features.

With the addition of the 8405, Sperry Univac adds another high performance device to its direct-access hierarchy.



Type 8405 Fixed Head Disc

COLORS¹

Standard Colors

Frame slate gray
Front/rear pale gray

Customer Color Selection²

End panels dark green
 slate gray
 twilight blue
 earth brown
 grayish blue

¹This is the color repertoire:
Definition of these colors is shown in
the Color Selection Brochure—U5329
which your Sperry Univac represent-
ative has available.

²End panel color selections not
available on all systems. Consult your
Univac representative for details.

FUNCTIONAL CHARACTERISTICS

Data Capacity

(8-bit bytes, Series 90)
(112-word record format,
1100 Series)
8405-00/01 Fixed-Head Disc—
1,376,256 36 bit words
8405-04/05 Fixed-Head Disc—
3,145,728 bytes
688,128 36-bit words

Controller

(8 FHD Drives via F2076):
8405-00/01:
11,010,048 36-bit words
8405-04/05:
25,165,824 bytes
5,505,024 36-bit words

Track

8,192 bytes
1,792 36-bit words

Transfer Rate

622,000 bytes per second

Recording Discs

8405-00/01 6
8405-04/05 3

Recording Surfaces

8405-00/01 12
8405-04/05 6

Tracks per Surface

8405-00/01 64 + 8 spaces
8405-04/05 64 + 8 spaces

Tracks per Spindle

8405-00/01 768 plus 96 spares
8405-04/05 384 plus 48 spares

Rotational Latency

8.33 milliseconds average
16.67 milliseconds maximum

PHYSICAL CHARACTERISTICS (Per FHD Drive)

Width: 48 inches
Height: 36 inches
Depth: 24 inches
Weight: 690 pounds

ENVIRONMENTAL CHARACTERISTICS

Shipping and Storage Range (Up to 72 hours)

Temperature -40°F to 140°F
Humidity 1% to 80%

72 Hours to 6 Months
Temperature 0°F to 110°F
Humidity 1% to 70%

Working Range

Temperature 60°F to 94°F
Humidity 20% to 85%

Heat Dissipated

4850 BTU/Hr.

POWER REQUIREMENTS

Nominal Voltage: 208/240 volts

Nominal Frequency: 60 Hz³

Frequency Tolerance: 0.5 Hz

Phases: Single phase

Nominal Load: 2.5 KVA

50 Hz models available.

Above information provided for
reference purposes only. Consult your
Sperry Univac representative for
additional information, delivery dates
and further specifications.